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## Agriculture

### M11

#### M Series - setting new power standards 170-300 kW

The 11 litre Cummins M Series range sets new performance and efficiency standards in the 170-300 kW sector. Building on the proven design of the 10 litre L Series, the M Series delivers productive performance for efficient industrial equipment operation.

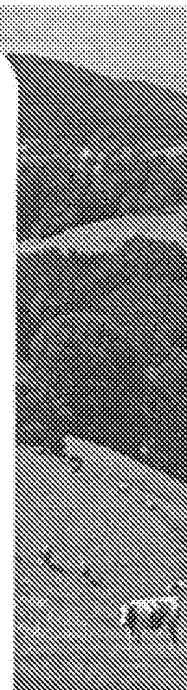
Key features of the M Series are a combination of Cummins' experience with the latest heavy duty diesel design techniques. The resulting engine delivers higher peak torque, meets current and future emissions legislation and retains the exceptional fuel efficiency level of the L Series.

#### CELECT<sup>7</sup> electronic management system - M11E

Full-authority CELECT electronics, makes it possible for maintenance managers to specify an engine's performance to match virtually any piece of equipment. Monitoring fuel consumption is instantaneous or it can be measured over a specified period of time. A load profile also can be tracked to quantify load and duty requirements.

Through an array of over 65 programmable features, the CELECT electronic system continuously monitors and manages thousands of bits of information per second from sophisticated electronic sensors located within key areas of the engine. CELECT measures everything from engine load to ambient air temperature and also adjusts for changes in altitude.

CELECT electronics are fully compatible with Cummins' Windows-based INTELECT<sup>7</sup> family of electronics software, including INSITE, a service support tool, and INFORM, which can be used to manage and co-ordinate fleet data. The engine also has a built-in protection system to alert an operator to potential problems and a warm-up feature for handling cold starts. It is possible to reprogramme a CELECT engine to incorporate the latest advancements in technology and breakthroughs for enhancing performance which are achieved by Cummins.



**CENTINEL?**oil replenishment: electronically controlled system which extends oil change intervals up to 4,000 hours. The system monitors the duty cycle removing small amounts of oil as required, blending into the fuel stream to be burned during combustion. The continuous oil replacement process offers improved engine lubrication and protection.

CENTINEL is an optional feature for M11 E CELECT electronic engines. Windows is a registered trademark of Microsoft Corporation.

### **M Series efficiency**

The premium duty M Series provides outstanding levels of fuel economy with specific fuel consumption ratings as low as 190g/kW-hr. The use of Holset HX50 turbochargers on this engine family has resulted in this high level of fuel efficiency being matched to increased performance, with greater low speed torque and enhanced engine response.

### **Step Timing Control (STC)**

Across the 155-261 kW power range the M Series is equipped with the well proven Step Timing Control (STC) system. STC ensures optimum engine timing at all combinations of load and ambient temperature, improves cold starting and reduces part throttle/light load fuel consumption.

### **CENTRY?electronics option**

Proven in construction and mining equipment operation, CENTRY allows the operator to tailor the engine performance to meet specific equipment function requirements. Among CENTRY's performance enhancing features is the facility to shape engine torque curve characteristics. Also, among other CENTRY features, is the ability to control engine speed in off-load conditions (droop control).

### **CHART**

M Series Specification		
General engine data	10.8 litre	in-line
6 cylinder,	4 stroke	watercooled, turbocharged

### **M Series industrial power ratings:**

M11 Jacket Water Aftercooled

155kW @ 2100rpm	1031Nm @ 1300rpm
183kW @ 2100rpm	1017Nm @ 1300rpm
195kW @ 2100rpm	1145Nm @ 1300rpm

201kW @ 2100rpm	1288Nm @ 1300rpm
208kW @ 2100rpm	1288Nm @ 1300rpm
215kW @ 2100rpm	1329Nm @ 1300rpm
224kW @ 2100rpm	1378Nm @ 1300rpm
231kW @ 2100rpm	1424Nm @ 1300rpm
239kW @ 2000rpm	1234Nm @ 1300rpm*
246kW @ 2100rpm	1468Nm @ 1300rpm*
250kW @ 1800rpm	1458Nm @ 1300rpm*
261kW @ 2100rpm	1562Nm @ 1300rpm*

\*Available with CENTRY electronics option

M11E Air-Air Aftercooled

CELECT Full Authority Electronic Engine Management

251kW @ 2100rpm	1833Nm @ 1300rpm
256kW @ 2100rpm	1901Nm @ 1300rpm

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